Don't Let Your Pool Drain Your Wallet

Learn How to Reduce Your Pool Pump Electricity Use by 70%

Did you know that the largest energy user in your home is probably your pool pump?

	Est. Annual Usage
Clothes Washer	110 kWh
Central A/C	493 kWh
Dryer	587 kWh
Television	620 kWh
Refrigerator	725 kWh
Freezer	898 kWh
Water Heater	2,149 kWh
Pool Filter Pump	**3,794 kWh**

Source: 2010 CEC CA Residential Appliance Saturation Survey

By converting to an energy efficient variable speed pool pump you can **reduce the energy usage of your pool pump by 70%** and your **total energy usage by up to 30%!**

CURRENT POOL SYSTEM VS. NEW POOL SYSTEM

	Current	New	
Pump Info			
Manufacturer	Pentair	Pentair	
Model	Whisperflo	IntelliFlo® VS-3050 Variable Speed	
Type	Single Speed	Variable Speed	
		Filter Speed	**Clean Speed**
HP/Speed	1.5 HP	1600 RPM	2600 RPM
Watts	1880 W	262 W	995 W
Flow	58 GPM	46.2 GPM	60 GPM
Hours Per Day	5 Hours	7 Hours	2 Hours
Turns Per Day			1.14 Turns
			(0.14 Turns Above Target)

Current Monthly Electricity Use		**New Monthly Electricity Use**
Pool Pump	286 kWh	116 kWh

Current Electrical Costs		**New Electrical Costs**
Monthly Cost	**$62.87**	**$25.57**
Annual Cost	**$754.82**	**$307.07**

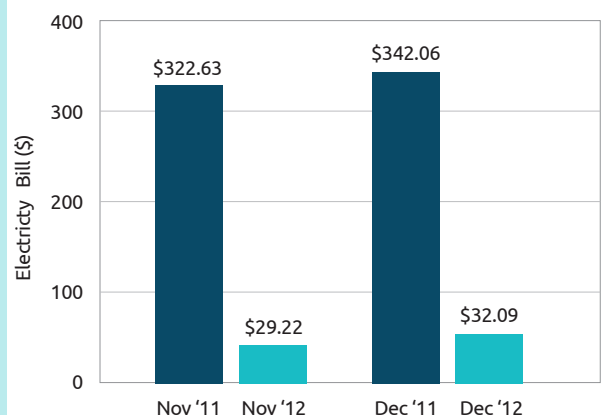*Energy Audit and Installation completed by Payan Pool Service, Santee, CA*

Dan has invested in a solar PV system to reduce his electricity expenses with a goal of getting to net zero. By replacing his pool pump with a variable speed model, he is are able to shave off an additional **$37/month or $448/year** while improving the water quality of his pool.

"Needless to say, we are extremely thrilled with the pump and the savings in our energy use and bill. We had a 10 kW solar system installed a while back and having this pump should enable us to achieve our goal of net zero energy in 2013."

-Dan A., Santee Homeowner
North Magnolia neighborhood

ENERGY BILLS 2011 & 2012

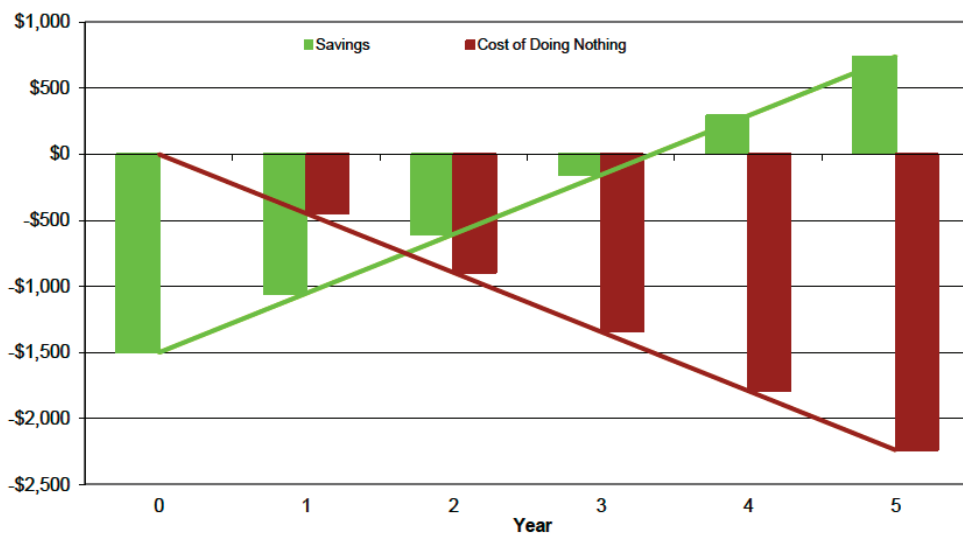|	Nov '11	Nov '12	Dec '11	Dec '12
Electricity Bill ($)	$322.63	$29.22	$342.06	$32.09

Not all of Dan's electricity savings is due to the pool pump retrofit, but he is clearly on track to their net zero electricity goal and with lower SDG&E usage his **entire bill is at the lowest $0.14/kwh** tier 1 rate.

SANTEE POOL PUMP CASE STUDY

With four active children at home, the Dan's backyard is where family and friends frequently gather to play volleyball and cool down in the pool. To address his high electricity costs, Dan installed a 10 kW solar system in July 2011. While the solar power reduced Dan's electricity bills by about 75%, Dan was on a mission to get his home to net zero energy usage.

After speaking with a trained and licensed pool service contractor, Dan learned that he could upgrade their 1.5-horsepower single speed pool pump to a variable speed pump that runs a longer total cycle time but at significantly lower power. Dan's first two electricity bills since installing the new pool pump have averaged 60% lower pool pump energy usage and they are delighted that they have taken their next big step toward net zero energy. The new pump's programmable timer has also been set so that it no longer runs the cleaning cycle between the peak demand hours of 11:00 a.m. and 6:00 p.m.

- *Reduce pool electricity usage by 60% -- $450/year*
- *Pump pays for itself in 3.3 years*
- *Save $2,200 over the next 5 years, compared to if he didn't upgrade their pool pump*
- *On track to achieve their zero net energy goal*

RETURN ON INVESTMENT

Dan and his contractor took advantage of SDG&E's $200 rebate which resulted in a net installation cost of $1500 -- and with the energy savings the new system provides, it will pay for itself in just over three years. Dan justified this initial $1,500 investment when his pool contractor shared with him the chart below which shows that if he didn't do the upgrade he would have to spend more than $2,200.00 in higher electric bills over the next 5 years.

If you currently have a pool with a single speed filter pump, contact a C-53 or C-61 certified pool contractor that can make this upgrade, so that you too can start saving. **You can confirm their Active Contractor's License at www.cslb.ca.gov on the left side "check a License or HIS Registration" tab.**

SANTEE
POOL PUMP
CASE STUDY